



Weltall

(shallow version)

by Arya Akhavan (January 2013)

Angles for R.I. = 1.620

43 + 6 girdles = 49 facets

3-fold, mirror-image symmetry

96 index

$L/W = 1.000$ $T/W = 0.417$ $U/W = 0.388$

$P/W = 0.354$ $C/W = 0.117$

$Vol./W^3 = 0.143$

PAVILION

P1	40.00°	01-31-33-63-65-95	Cut to centerpoint.
G1	90.00°	04-28-36-60-68-92	Set stone size.
P2	40.87°	02-30-34-62-66-94	Meet P1, G1
P3	43.20°	03-29-35-61-67-93	Meet P1, G1, P2
P4	49.89°	04-28-36-60-68-92	Meet P1, G1, P2, P3

CROWN

C1	30.00°	04-28-36-60-68-92	Set girdle width.
C2	24.93°	05-27-37-59-69-91	Meet G1, C1
C3	22.67°	06-26-38-58-70-90	Meet G1, C1, C2
T	0.00°	Table	Meet C2, C3

How many facets can YOU get to meet correctly in a single meetpoint? Well, this pattern has 3 sets of 8-facet meetpoints, and 3 sets of 10-facet meetpoints. Good luck - you'll need it. And no, I won't test-cut this; it's too hard. Works in materials from topaz to YAG (RI = 1.61 - 1.83) with no changes, but I prefer it in tourmaline.

Suggested size = 8-10 mm

C:\Users\ARYADE~1\Pictures\DESIGN~1\WORKSI~1\1WELTA~1.GEM